FIG. 1   1/3

FIG. 2

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Attorney Docket No. 10031315-1
SYSTEM AND METHOD FOR PROCESSING TRAINING DATA FOR
A STATISTICAL APPLICATION
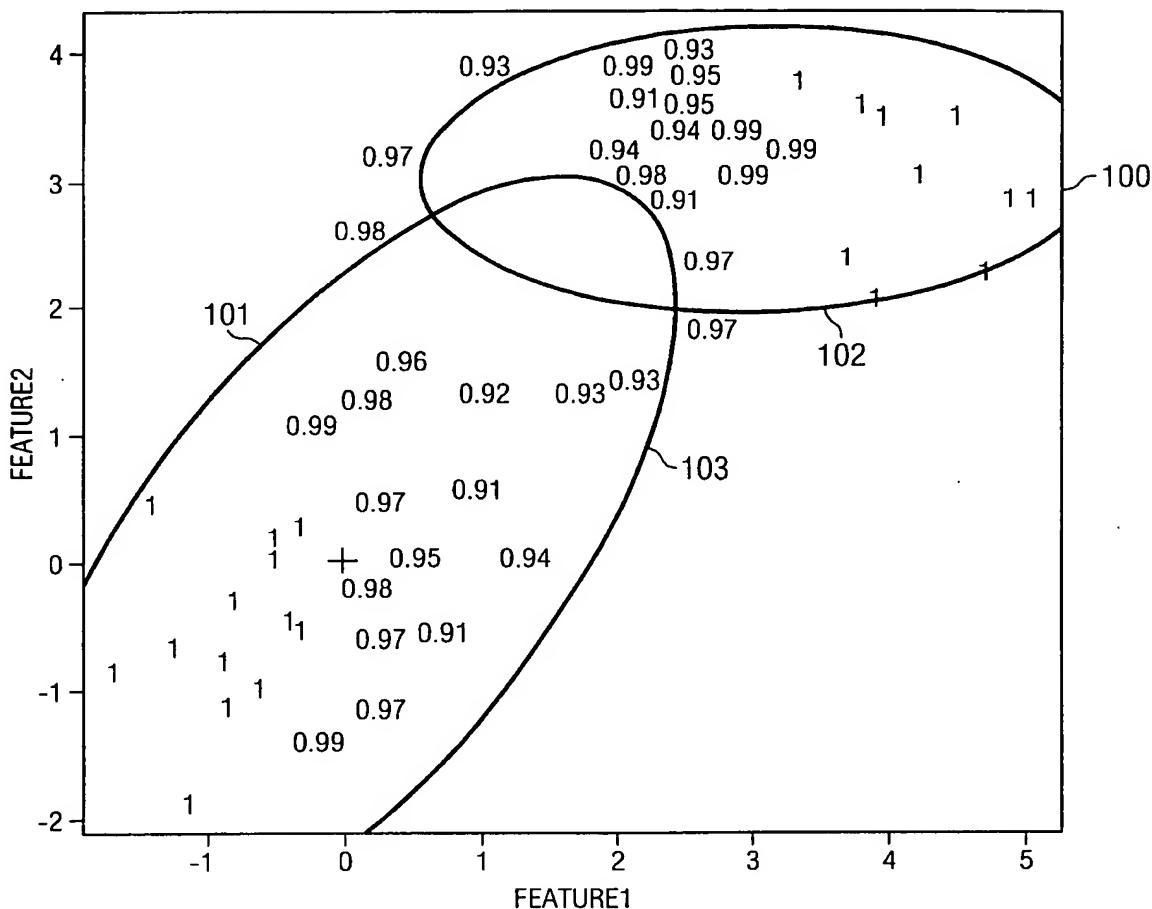Jonathan Qiang Li

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FIG. 3

ACCESS TRAINING DATA STRUCTURES —301

ITERATIVELY CALCULATE PROBABILITIES OF THE MULTIPLE CLASSES —302

USING MODEL ESTIMATORS AND PROBABILITIES OF THE MULTIPLE CLASSES, CALCULATE CONFIDENCE VALUES FOR EACH TRAINING DATA STRUCTURE ACCORDING TO IDENTIFIED CLASSIFICATION —303

RECEIVE USER INPUT —311

312

RECLASSIFY, DELETE, OR VERIFY?

VERIFY

DELETE

313

RECLASSIFY

CHANGE VALUE OF CLASSIFICATION MEMBER OF TRAINING DATA STRUCTURE AS APPROPRIATE

DELETE TRAINING DATA STRUCTURE

314

CREATE SCATTER PLOT USING FEATURE VARIABLES OF TRAINING DATA STRUCTURES (USE DIFFERENT SHAPES FOR POINTS THAT HAVE BEEN PREVIOUSLY VERIFIED OR RECLASSIFIED) —304

ANNOTATE POINTS IN SCATTER PLOT WITH CONFIDENCE VALUES —305

CHANGE COLOR OF POINTS HAVING CONFIDENCE VALUE BELOW THRESHOLD VALUE —306

RECEIVE USER INPUT SELECTING POINT IN SCATTER PLOT —307

RETRIEVE TRAINING DATA STRUCTURE ASSOCIATED WITH SELECTED POINT —308

RETRIEVE IMAGE FILE ASSOCIATED WITH THE RESPECTIVE TRAINING DATA STRUCTURE —309

DISPLAY IMAGE WINDOW —310

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SYSTEM AND METHOD FOR PROCESSING TRAINING DATA FOR
A STATISTICAL APPLICATION
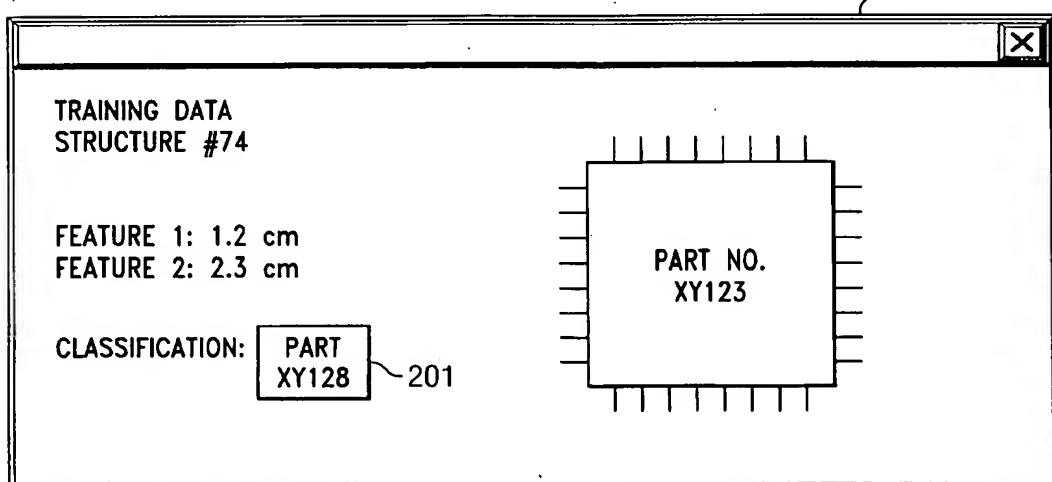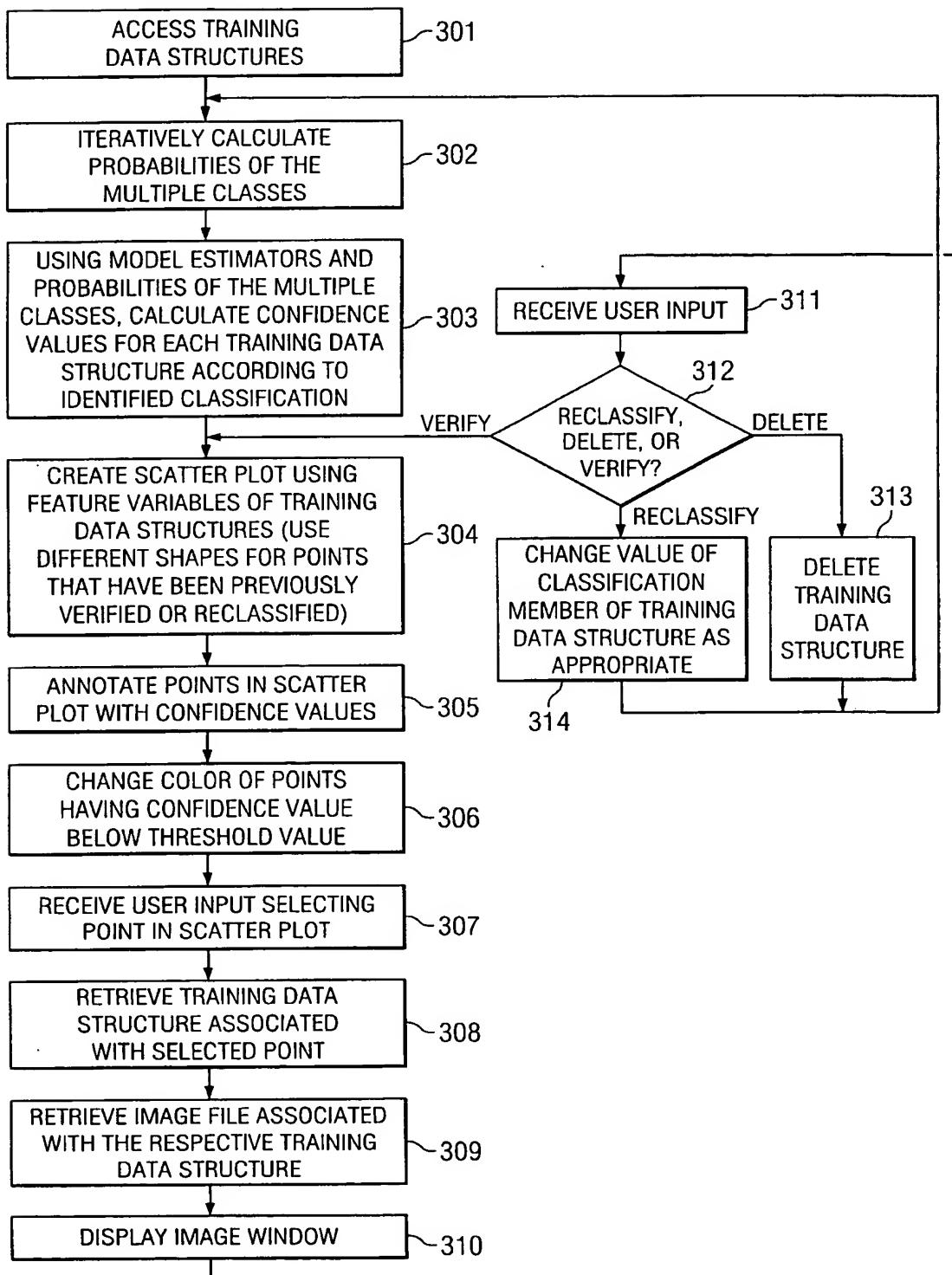Jonathan Qiang Li

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FIG. 4

400

COMPUTER SYSTEM

401 PROCESSOR 402 DISPLAY 403 INPUT PERIPHERAL(S) 405

NON-VOLATILE MEMORY 406

INTERACTIVE SCATTER PLOT UTILITY

SCATTER PLOT DISPLAY ROUTINE 409

407 CLASS PROBABILITY CALCULATION ROUTINE

USER INPUT ROUTINE 410

408 CONFIDENCE VALUE CALCULATION ROUTINE

IMAGE WINDOW DISPLAY ROUTINE 411

412 TRAINING DATA STRUCTURES

IMAGE FILES 413